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ON OUR COVER is a view of the North Courtyard at the Virginia Museum of Fine
Arts. The North Wing Addition to the Museum, designed by Hardwicke
Associates, Inc. of Richmond, is featured on page 34 of this issue. (Photo by
Hardwicke Associates, Inc.)
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Page Four

VIRGINIA RECORD
ENERGY: ALTERNATE SOURCES

In recent editorials we have discussed energy use and conservation in the built environment, adaptive reuse of existing structures where practical, social/political/economic impacts of renovation, restoration and preservation and how all of these considerations affect the well being of design professionals and the public they serve. We believe all of these areas of discussion are of great import and are due careful consideration on the part of designers, users and planners alike. Here is another facet in our continuing concern over the steadily decreasing supplies of oil and gas as energy sources for our homes, schools, offices, etc., and an area is apparently growing more visible through research and experimentation on alternate sources.

What alternate sources of energy are available to replace oil and gas to heat and cool buildings? A majority of people outside of the “building team members,” architects, engineers, contractors and owners, will automatically note solar energy and will be hard pressed to come up with others. Unfortunately, many members of the building team can go no further than solar energy themselves and, if they know other sources, are reluctant to try one of these alternate systems. These individuals can take heart in the knowledge that a significant number of architects, engineers, contractors and owners have used one or more alternate energy systems in a building completed within the last year, and found them successful. Designers, especially should take note because surveys have shown that the contractors and owners may be more willing to experiment than we are.

Some energy alternates such as nuclear fission, nuclear fusion, ocean wave generated electricity and ocean thermal electricity are not practical for buildings. Sources of wind, geothermal heat, underground water, passive and active solar stems, coal, waste products and reclaimed heat are practical and are providing electricity, heating, cooling and steam power for commercial, residential, industrial and institutional structures. A recent survey shows that 42% of all respondents had used a heat recovery system, 21% had used solar energy and lesser percentages had gained practical experience with wind, coal or geothermal energy sources. Largely, the survey found these systems to be working well and, despite reservations, half of those using a solar energy system said it met design expectations with 10% indicating better than expected results. Although up-front cost of solar systems and long pay-back were cited as major reservations, the average pay-back period was only slightly over seven years.

An important part of energy conservation through alternate source usage in addition to proper design and installation has been life-cycle costing. Investments to reduce operating costs of a building over its expected life are being and should be more so, aggressively promoted. In eight of ten buildings under design or construction that were reported on in the survey, some feature to substantially...
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The Virginia Society of the American Institute of Architects has important and active committees. In recent past, one of the most vital productive has been the Government Affairs Committee.

Selecting an Architect is a document used by our Government Affairs Committee that is available to Virginia members at the headquarters in Richmond.

The following thoughts on the selection of Architects for Public Construction Projects are reprinted in this pamphlet:

Architects must practice their profession in the public interest. This mandate is included in virtually every law governing the registration and licensing of architects. That mandate is never more important than when the architect is involved in a public construction project. The commitment to serve the public interest begins with the manner in which the project architect is selected and continues through the completion of the actual functioning of the structure.

"In several states, allegations linking improper political contributions and kickbacks to the receipt of public design contracts by engineers and architects have caused some legislators and others to consider restructuring the selection process for professional design services. It is vital that the selection procedure be free from political influence. It should be an open process with the sole objective of retaining the highest qualified architect on the basis of demonstrated experience, competence, and motivation at fair and reasonable negotiated compensation for the professional services.

"Care should be taken in the selection procedure not to overlook the young professional or small firm that may not have many buildings to his credit or a vast amount of experience. He may be well qualified in all other respects, and consideration should be given to his motivation and ability to offer a fresh and imaginative approach to a particular problem. The final selection of the architect should be made on the basis of good standing in his profession and in the community, on his creative and innovative ability, his technical competence, his business capacity, his integrity, his experience, and on his ability to cooperate with all those involved in the project."

Other facets of the selection process discussed in greater detail in the pamphlet are: (1) a review of competitive fee bidding; (2) a discussion of selecting architects in the public interest; (3) an outline of a government process for obtaining architectural services; and (4) the draft of a bill or resolution establishing a selection system for local jurisdictions.

The pamphlet is only one of many examples of the work done by our Virginia Society committees. Your support of the society and particularly the committees whose sphere of influence interests you, is one of the ways we can strengthen the status of the Architectural Profession in Virginia.

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Virginia Society, AIA

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MS. C. BETH MILLS
1976 graduate of University of Virginia
With Jones & Strange-Boston, Richmond
THE OPENING this fall of the Franklin County recreation Park concluded the first phase of development for central recreation complex which will eventually grow to utilize approximately 425 acres of County owned property located between U.S. Highway 220 and State Highway 619.

The new park site occupies approximately 150 acres and is six miles south of the Town of Rocky Mount with the main entrance off Route 619. The terrain is rolling, partially cleared, with large areas of light and dense woods.

Assisting the Franklin County Parks and Recreation Department in the development of this project were the Bureau of Outdoor Recreation, U. S. Department of Interior and the Commonwealth’s Commission of Outdoor Recreation.

The park contains numerous opportunities for recreation and educational experiences. The focal point of the total complex is an Information Center. This year-round facility contains approximately 1,000 S.F. of main level space. A full basement is provided for equipment storage. The primary function of the main level is to house the offices of the Franklin County Department of Parks and Recreation. The lobby and information areas serve to inform visitors of the many activities which they may enjoy and also provides an indoor interpretive structure from which students and naturalists can begin their outdoor learning experience. Sample covered decks are provided to give shelter and relaxation to park visitors.

The information center is viewed immediately as one turns off the highway and proceeds along the divided access road. Once in front of the center the road divides and becomes a loop for safe and efficient intra-circulation, connecting the various activities within the park. The main parking lot is north of and adjacent to the center. Its convenient location allows many activities in close proximity to be served.

As one passes by the center, the tennis courts appear to the north. Four courts are provided complete with fencing and lights for after-dark play.

At the far end of the vehicular loop there exists an open area around which has been placed the picnic activities. These are provided in small groupings of tables and beneath...
a large shelter constructed of wood deck, beam and column components.

Around the picnic shelter and towards the Information Center can be found the "really fun" area, the playground. Children will enjoy the many pieces of natural wood play devices. There are slides and swings to name a few. For the older children, a fully equipped basketball court is provided. Horseshoe and shuffleboard enthusiasts likewise will enjoy their accommodations.

Two strategically located comfort stations are provided.

Surrounding the physical improvements are several miles of trails to enhance the interpretive experience. Trail markers serve to denote interesting ecological and environmental features which are characteristic to the locale. An equestrian trail is soon to become a reality.

Materials used for improvements are predominantly wood and stone. Much effort went into preserving the natural character of the site during both design and construction.

The project was divided into three separate contracts or "Bid Packages."

The contractor for Bid Package No. 1 was J. R. Cundiff, Jr. of Collinsville. Their work consisted of clearing, grubbing, rough grading, temporary roadway surfacing, excavating, sodding, seeding, etc.

The contractor for Bid Package No. 2 was Day Construction Co., Inc. of Salem. Their work consisted of utilities distribution, sanitary systems, roads and paving, site lighting, structures and miscellaneous construction.

The contractor for Bid Package No. 3 was Gallimore, Inc. Their work consisted of fixed equipment, trails and path impact areas, tables and benches, fences and gates, graphic and landscaping.

Subcontractors & Suppliers

From Salem were: L. H. Sawyer Paving Co., Inc., paving contractor; Leonard Smith Sheet Metal & Roofing, Inc., roofing & sheet metal; Marion Glass & Aluminum Co., glazing contractor; Acoustical Services, Inc., gypsum board contractor & resilient tile; and John N. Yauger & Co., skylights.

Roanoke firms were: Roanoke Wood Preservers, Inc., carpentry; South Roanoke Lumber Co., millwork & doors; Pella Window & Door, windows; Skyline Paint & Hardware, Inc., hardware supplier; L. R. Brown Sr., painting contractor; Dickerson-Trent, Inc., plumbing/heating, ventilating/air conditioning contractor; and M & M Electric Contracting, Inc., electrical equipment supplier.

Others were: Koppers Co., Inc., Salisbury, Maryland, structural wood & pre-manufactured park shelter; and The Woodshed, Lynchburg, wood flooring.

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LASZLO ARANYI

PAGE FOURTEEN
VIRGINIA RECORD
This residence is located on a wooded one-acre site in Virginia Beach and fronts on a tidal body of water. To take advantage of the view, the house was placed near the edge of the water. Sitting inside the house, one almost has the feeling of being on a boat. Most of the trees were preserved and the site is left natural. Even though there are homes on both sides, the house still has the feeling of complete privacy and the immediate closeness of nature.

The north side of the house which also faces the street was almost blank. Almost all the rooms have a view of the water or at least a good view of the woods.

The neighboring houses are much closer to the street; consequently, all the windows could be left without drapery.

"Light Tower"

The stair serves as a "light tower," receiving natural light through conventional windows and clerestory windows. This light is then reflected into the different parts of the house. Most rooms get light from at least two different directions, creating spacious, bright interiors. All the windows and...
sliding glass doors are aluminum clad on the outside and use double glazing.

Artificial Lighting
Unusual amounts of fluorescent lights are used. Most of the lighting is recessed or indirect lighting. Under the living room beams there are tracks installed for movable lights designed for the illumination of art objects. Low voltage control is provided for outside lights and lights in the halls and stairway, controlled from a master switch. Illuminated switches indicate which light is on and the homeowner can turn all these lights off from one point before retiring for the night.

Mechanical System
Three air-to-air electric heat pumps with humidifiers heat and cool the house.

Energy Conservation
The exterior walls are constructed with 2 x 6 wood studs to accommodate 6 inch batt insulation. All the floor and roof joists are "Trus-joists." These are I-beams constructed of glued and laminated plywood. This made longer than usual spans possible and, in some instances, heating ducts could penetrate these beams. The 12 inch deep joists also made it possible to use 9 inch batt insulation between the rafters.

C.M. Associates Inc. of Virginia Beach acted as construction manager.

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VIRGINIA RECORD

Founded 187
SITED ON A wooded hillside overlooking two lakes, this 2800 square foot residence was designed around prominent views, consideration for topography, and an emphasis on varying degrees of community and privacy.

The two lakes, one substantially larger than the other, demand attention. With this in mind, the entry sequence was designed so that one could have to walk toward the lakes before turning 180° and entering the house. Also, all active areas of the house, where an "outward extension" could be desirable, were located to capture the lake views. Major exposure provided for the heart of the house, a combined family, living, and pool room area, which overlooks the larger lake. One side of the pool room and the breakfast area of the kitchen focus on the smaller lake as well as a golf green adjacent to this lake. This end of the house is also angled at 30° to provide direct orientation toward the view.

In order to tie the house to the land and create a natural fit, a change in levels was provided. This break is reflected on the exterior through modulation of roof heights, and on the interior it sets off the semi-private areas from the totally open areas.

(Please turn the page)
The need for distinction between private, semi-private, and community spaces also played a major role in shaping the design. All sleeping areas were located at the extremes or tension points of the house in order to provide maximum separation from other areas. The master bedroom suite was located toward the most peaceful side of the property, where it could capture the tranquility of this beautiful site, and the children's bedrooms are upstairs, at either end of the second floor.

With the roof breaks that were created to conform to the site, the children's bedrooms overlook the roofs below and provide a view of the larger lake. Also, one of the bedrooms is at the end toward the smaller lake, and a lookout, created by radially fanning steps up to a niche in the wall, provides a view towards this smaller lake. This lookout, as well as a skylight-window arrangement at the other bedroom, was also provided to personalize the children's sleeping areas.

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The semi-private spaces consist of the kitchen and dining areas which are partially screened from other areas by wall with a series of solid and void spaces, and an open riser stairway. The heart of the house includes the most open family/living areas which were located adjacent to the pool room. Keeping these open spaces on the same floor level, a combined use can be achieved for entertaining and modulated ceiling heights are used to provide definition of space. The ceiling moves across the pool room at 8'-0" and then changes to a sloped ceiling section above the family/living area. The sloped section climaxes at a clerestory and also allows for a second floor balcony to overlook the areas below.

Vertical cedar board siding has been chosen for the exterior to help blend the house with its natural surroundings and a brown brick base will enable the house to softly tie into the land.

James B. Ferguson General Contracting Corp. of Ashland was general contractor and handled steel erection, handrails, cabinets, caulking, roofing, wall insulation and painting.

Subcontractors & Suppliers

From Ashland were: R. S. Shelton, landscaping contractor; Haley Read Mix Co., Inc., concrete supplier; Lewis Jennings, masonry contractor & stonework contractor; Haley-Durrett, mortar & paint supplier (Sampson Paints); Biltmore Steel, steel supplier; Pete Puryear, ceramic tile; and Lenn D. Hardy, electrical contractor.

Richmond firms were: Easterling Building Supply Co., masonry supplier; Ruffin & Payne, Inc., millwork & windows; R. A. Siewers, Inc., paneling; Binswanger Glass Co., wood doors; Pleasants Hardware, hardware supplier; T. G. Garrett, gypsum board contractor; Tile Town, resilient tile; Floyd Lewis, plumbing contractor; Howell's Heating & Air Conditioning, heating/ventilating/air conditioning contractor; Atlantic Electrical Supply Corp., lighting fixtures supplier; General Electric Supply Co., electrical equipment supplier; and W. H. Stover & Co., Inc., skylights.

Others were: Raymond Lewis, Hanover County, excavating; and Luc Quarries, Inc., Manakin-Sabot stonework supplier.

PAGE EIGHTEEN VIRGINIA RECORD
THE METHODIST HOME in Roanoke, in an effort to accommodate the ever increasing demand for retirement housing, will provide additional units on a portion of land which is contiguous to but not functionally a part of the present site.

The proposed units will house retired residents who are fully ambulatory and self-sufficient. Aside from providing certain amenities consistent with housing for the aging, project development will be in keeping with the needs of conventional apartment dwellers.

Occupants of this apartment project will be eligible to utilize the medical facilities of the Roanoke Methodist home and may transfer their residence to the "Home" when their needs are best served by such relocation. The religious, dining and recreation activities of the "Home" will also be available to the apartment occupants.

The following performance goals were the basis for project development:

—Compactness for convenience and economy;
—Design and construction for maximum safety;
—the effect of spaciousness and livability;
—a high degree of privacy;
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Founded 18
—Minimize the effort required for housekeeping activities;
—Careful avoidance of an institutional look.

The site as it relates to the surrounding community is located in the near northwest section of Roanoke City. It is bordered on the north by a golf course which is owned by the Roanoke Country Club. In addition to providing excellent space amenities, the recreational benefits to retired persons are substantial. To the west across Old Country Club ad sits a stately dwelling done in the finest tradition of the English Tudor style.

The contiguous relationship with the present "Home" property is to the south across Shady Lane Road. The proximity of the "Home" facilities appears ideal. The new apartment facility enjoys enough separation to create the feeling of independence from a terminal care facility, however, it is sufficiently close by to assist the progressive needs of the aging resident.

The total enclosed area of the project is 13,100 square feet. Eleven apartments are provided, six in each of two identical buildings. Each apartment contains approximately 1,100 square feet distributed between a living room, two bedrooms, kitchen/dining area, utility room, pantry and usual storage provisions. Either a covered deck or patio is attached to each unit.

The structure is wood frame using brick veneer and wood siding and a Fiberglas shingle roof.

A unique feature of this two-story complex is the elimination of steps needed to reach any given apartment. The site has been carefully recontoured to minimize the grade differences between parking lot and entries. Strict attention has been given to the preservation of existing vegetation.

The amenities package provided for the occupants will include a complete kitchen, carpet throughout and year-round air conditioning.

Q. M. Tomlinson, Inc. of Roanoke was general contractor.

Subcontractors & Suppliers
(Roanoke firms unless noted)

Joe Bandy & Son, Inc., excavating; S. R. Draper Paving Co., Inc., paving contractor; Concrete Ready Mixed Corp., concrete supplier; Thompson Masonry Contractors, Salem, masonry contractor; Valley Steel Corp., Salem, steel supplier; Timber Truss Housing Systems, Inc., Salem, structural wood; South Roanoke Lumber Co., millwork, wood doors & windows, Skyline Paint & Hardware, Inc., hardware supplier; James E. Lyle, Jr., plaster contractor; National Buying Service, resilient tile; Elmer M. Jones, Painting & Decorating, Salem, painting contractor; Dickerson-Trent, Inc., plumbing contractor; Bud Weaver Sheet Metal Co., heating/ventilating/air conditioning contractor; and Milton Electric Service Co., electrical contractor.
Birchwood Apartments, Lynchburg, is considered one of the most attractive, low-income housing developments to come on the market to date. Developed by the Bush Organization of Norfolk, it is a part of the Lynchburg Redevelopment and Housing Authority’s turnkey housing program.

Birchwood is only the second such development by the Lynchburg Redevelopment and Housing Authority, and it is the first time in more than sixteen years that Lynchburg has built additional low-income housing units to meet the needs of its citizens who could not otherwise afford living accommodations of this calibre. It has greatly improved the morale and living standards of low-income families and should be a trend-setter for other redevelopment and housing projects.

The complex is composed of one, two, three, four and five bedroom townhouses. The units are clustered within each building around entrance courts to create a sense of neighborhood. Composed of five identical buildings of twenty units each, the townhouses (all with private entrances) are specifically related to site. Set among the mountains of Virginia, the buildings are carefully adapted to take full advantage of setting in both structure and design.

The appearance of Birchwood is a major factor of its appeal in that typical, low-income housing facade has been avoided by staggering townhouses and varying wall patterns. The structural system developed to allow the buildings to follow the existing terrain with an average grade change of 25 feet from one side of the building to the other. The twenty-building concept was developed in an attempt to minimize the amount of grading necessary and to retain as much of the existing wooded area as possible.

The buildings are a combination of a crawl space with masonry retaining walls and concrete slab on grade. The roof construction employs conventional prefabricated wood roof trusses. The exterior walls are wood framed with brick veneer and rough-sawn siding, and the color scheme uses all natural colors.
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PAGE TWENTY-FOUR VIRGINIA RECORD
The community-management-maintenance building also adapts these same building materials to form a well-integrated community. This building uses the rental office for the development, a maintenance facility, a dormitory and a large recreation hall. An outdoor recreation area has been developed adjacent to the community-management-maintenance building, using the existing trees and plants to complement the facilities.

The cost of the completed Birchwood project is $2.5 million. Rents are based on 25% of the adjusted family income, with maximum ceiling rents declining from $125 for the five bedroom units.

Birchwood Apartments were first developed by the U.S. Department of Housing and Urban Development. Creative Construction and Development Corporation of Roanoke was the general subcontractor for the Bush organization and handled foundations, concrete work, reinforcing, carpentry (with James W. Young, Rustburg), and sheet metal.

Subcontractors & Suppliers (Roanoke firms unless noted) were Bandy & Son, Inc., excavating; R. Yagle Landscaping Co., landscaping, etc.; landscaping & landscaping contractor; Marvin V. Compton & Sons, Inc., Lynchburg, plumber; Lynchburg Ready Mix Concrete Co., Lynchburg, concrete supplier; C. S. Dunford, Lovelace, Wylin & Lovelace, J. Irven Davis, James W. Stevens & Jennings Masonry Inc., Roanoke, Glady's, Lynchburg, Madison Heights, masonry contractors; Lightweight Block Co., masonry supplier; Riverton Corp., concrete products; Bennettsville, S. C., cabinets; J. F. Taliaferro, Madison Heights, plastering; and A. E. Mills Paint Co., Blacksburg, caulking & painting contractor (Sherwin-Williams paints).

Also, Johns-Manville Sales Corp., Atlanta, Ga., roof shingles; Taylor Insulating Co., Inc., wall insulation; Har Hardwood Corp., Taylorsville, W. Va., metal doors & frames; Boise Cascade, Greensboro, N. C., wood doors; Keller Building Products.

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This multipurpose addition to the Charles Barrett Elementary School in Alexandria was completed December 1976.

Program:
P. E. classes for the school's 285 pupils were conducted in the sloped-floor, proscenium stage auditorium. A phased upgrading of the school's physical plant, including sitework, called for construction of a multipurpose space with two teaching stations sized for Junior High School basketball competition, and an auxiliary meeting/game room and toilets. The program stressed shared use of the facility with the neighboring community and a nights/summers recreation program administered by the city.

Design Solution:
From the covered porch the pupil gains direct entry into the circulation spine which begins at the school's existing egress vestibule, by-passes a divisible meeting/game room, becomes a descending ramp with a mid-level...
pause for access to toilet rooms, terminating at the multipurpose space where storage walls with sloped, heavy-duty, expanded metal roofs (for ventilation and return of stray balls) flank forced and return air ventilating towers. The building closure consists of an exterior skin of warm tan colored CMU, 2-inch cavity rigid thermal insulation, and an interior skin of either regular or sound absorptive CMU left natural, painted, or given a glazed coating. In the multipurpose space a durable, low-maintenance, wood composition floor is used and natural daylight is admitted through impact-resistant translucent fiberglass panels with ventilating hoppers below. An operable wall subdivides the space as required. Addition, 7798 S.F.; Covered porch, 912 S.F.

Site Description:
A 5-acre, roughly rectangular, site with street frontage on the long dimension, a 5% slope from the street to the rear, with the existing school occupying a middle two-fifths of the
street frontage. Included in the scope of work was the reorganization of all on-site parking at the school's west end, and recovery of the east end (formerly a patchwork of blacktop parking and foundations of former temporary buildings) for landscaped playing fields.

**Project Cost:**

Multipurpose Addition: $316,314  
Sitework: $ 89,287  

Eugene Thomas Construction Co., Inc. of Alexandria was general contractor and handled excavating, sodding, seeding, etc., foundations, concrete work and carpentry.

**Subcontractors & Suppliers**

(Alexandria firms unless noted)  
Chapel Valley Nursery Co., Woodbine, Md., landscaping & landscaping contractor; National Asphalt Paving Corp., Merrifield, paving contractor; James Steel Fabricators, Inc., reinforcing, steel supplier/erection/joists/roof deck, miscellaneous metal & handrails; Virginia Concrete, Springfield, concrete supplier; Metropolitan Masonry Corp., Beltsville, Md., masonry contractor & precast stonework contractor; Betco Block & Products Co., Washington, D.C., masonry supplier & acoustical treatment (Soundbox); United Materials, Vienna, mortar; and Arban Precast Stone, Inc., Triangle, precast stonework supplier.

Also, Arlington Woodworking & Lumber, McLean, millwork & wood doors; Bethesda Asphalt & Bituminous Co., Rockville, Md., waterproofing; Tonstad Caulking Co., Inc., caulking; Orndorff & Spaid, Inc., Beltsville, Md.,

**PAGE TWENTY-EIGHT**


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ARCHITECT

ADDITION TO
TOTARO ELEMENTARY SCHOOL
LAWRENCEVILLE

WM. G. BRANDT, JR. & ASSOC., INC.
Consulting Engineer, Mechanical/Electrical

DUNBAR, MILBY & WILLIAMS, Consulting Engineer, Structural

Interior Design by THE ARCHITECT

PAUL HUFFMAN, Photography

KENBRIDGE CONSTRUCTION CO., INC., General Contractor
The addition to Totaro Elementary School in Brunswick County, the largest of three elementary school additions accomplished along with this project, is interesting in that the architect was involved in total comprehensive services including the initial programming and feasibility of the three additions. Informal meetings and conferences with the school administration, parents, teachers and principals were conducted resulting in a complete educational program which established learning methods, teacher-pupil relationships, teaching tools and furnishings, flexibility, priorities and alternates.

Various site studies were explored on all three additions with Totaro presenting the most confining and difficult problems. The site restrictions of the property and an effort not to use up the existing play fields to the rear of the school directed the addition to be located on a small hill to the west of the existing school. To accomplish the resulting change in floor levels without the expense of an elevator, an on-grade ramp was utilized to correct the existing school with the new addition.

The new addition, housing the lower elementary grades and support facilities, is a major classroom addition which embodies many contemporary concepts. A new library, amphitheater, music room, art room, and a special area for remedial programs are clustered at the juncture of the old and new buildings, thus forming a centralized nucleus of special facilities.
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which are convenient to the whole building. A main entrance at this point also increases their accessibility to the public and other schools in the county system.

Connected to this area by means of a ramp is a new classroom wing that might be described as a "modified open plan," with pairs of classrooms subdivided by folding partitions to allow either separate classrooms or shared teaching. A wide span roof structure with demountable classroom partitions will allow flexibility to respond to future program changes with relative ease. Teachers' workrooms are provided for each pair of classrooms to facilitate team teaching and to allow seminars with small groups of students or individuals. Located in the center of the addition, surrounded by the classrooms, is a flexible multi-use amphitheatre that can accommodate large or small group activities. Immediately adjacent to the amphitheatre is an outside, covered play area for use by the pupils in inclement weather.

Owner: Brunswick County School Board
Building Area: 23,700 square feet
Construction Bid: $793,396 — July 1975
Cost per square foot: $33.
Services provided: Full architectural services
Kenbridge Construction Co., Inc., of Kenbridge, was general contractor.

Subcontractors & Suppliers
From Kenbridge were: L. H. Wingfield Roofing and Metal Co., built-up roof & sheet metal; and Kenbridge Mfg. & Supply Co., carpet.
Richmond firms were: S & W Steel Co., Inc., steel joists, steel roof deck, other roof deck; E. S. Chappell & Son, Inc., caulking; Ar-Wall, Inc., metal siding; C. B. Smith Co., acoustical treatment & resilient tile; John H. Hampshire, Inc., demountable partitions; and Terminix Engineers, termite treatment.

Others were: Solomon & Barker, South Hill, grading, sodding, seeding, etc.; Short Paving Co., Inc., Petersburg, asphalt paving contractor; Richard A. Holmes, Meredithville, masonry contractor; Virginia Auto Glass Co., Chase City, glass, glazing contractor & windows; Virginia Plastering Co., Fredericksburg, steel studs & drywall & gypsum board contractor; and Ward Tile & Terrazzo, Inc., Raleigh, N. C., ceramic tile.

NORTH WING ADDITION
VIRGINIA MUSEUM OF FINE ARTS
RICHMOND
HARDWICKE ASSOCIATES - ARCHITECT
LAWRENCE HALPRIN ASSOCIATES - LANDSCAPE ARCHITECT
ROBERT S. SPRETELEY & ASSOC., Consulting Engineer, Mechanical/Electrical
HARRIS, NORMAN, GILES & WALKER, Consulting Engineer, Structural
BOLT BERANEK & NEUMANN, INC., Acoustic Consultants
JOHN G. KOLBE CO., Kitchen Consultant
ISD INCORPORATED, Interior Design
Photography by THE ARCHITECT unless noted
HYMAN, DOYLE & RUSSELL, INC., General Contractor

PAGE THIRTY-FOUR

VIRGINIA RECORD
The new North Wing of the Virginia Museum opened to the public January 20, 1976 marking the completion of a two-part, $10 million building program that has been 10 years in progress.

In 1962, facing the need for additional space, the Museum began planning which called for the addition of two wings to the existing building. (In 1955, one wing had already been added to the original building which opened in January 1936.) Between 1962 and 1964 the Museum’s immediate and long range building needs were studied and a comprehensive plan developed for the expansion of the headquarters building in Richmond. The plan divided new construction into two proposed additions; the South Wing and the North Wing. Both wings included additional galleries, but below the Gallery Floor the South Wing was designed to accommodate the more private “backstage” work areas which were badly needed; while the North Wing was to become the focus of the new public areas of the Museum. With the necessary money appropriated in 1972 by the General Assembly, construction on the North Wing began in February 1973.

The curved forms of the North Wing respond to the moving paths of a visitor as he approaches the Museum on curving drives from the Boulevard or from the Motor Park within the block. Walled and screened from view the sculpture garden offers a variety of settings for sculpture and reflecting pools and was designed to take advantage of the finest of the great old trees in the area. The new design of the North Wing is planned to relate building and garden as intimately as possible. All the major spaces of the building have views of the garden, and the visitor can go directly into the garden from each of the three main levels of the building.

Ample canopies at both entrances shelter passengers getting in or out of cars or buses. The visitor enters a relatively low and narrow space which broadens as he progresses into the building until he moves beyond the balcony of the gallery level above and experiences the full height and depth of the new entrance hall. The orientation (Continued on page 46)
The Tidewater Virginia headquarters building for Family Service/Travelers' Aid was designed to serve as operation headquarters for the private, community funded, social services agency. It was planned to serve efficiently for administrative functions but also to provide the environment needed for the reception of clients and delivery of social services to them. Constructed in the redeveloped east Ghent area of Norfolk, the building shares a block with two other public service agencies, forming a transition use between the retail-commercial area on the north and the educational and residential use occupancies to the south and west.

The materials and colors of the building were selected to coordinate with the theme colors and materials which were selected by the Norfolk Redevelopment and Housing Authority for use in the Ghent Square redevelopment area. While the architectural designs and styles of the individual buildings vary, the entire Ghent Square area is intended to form a cohesive urban image.

Although the construction budget was limited, as it is for all public funded agencies, care was taken to avoid a terse atmosphere in the public spaces. The lobby was designed with open view to a landscaped forecourt and on the wall a mural painted by the well known Virginia artist A. Jackson, helped create a humanist atmosphere. The building is designed to serve its occupants and not intimidate them. It is fully accessible for use by physically handicapped individuals.
employees and clients, although the building was planned before the requirement was codified in Virginia. This requirement was inherent in the considerate program provided by the Division.

Careful attention was given to the section of the floor and wall surfaces. All good appearance and easy maintenance and to making the walls of the offices and interview rooms resistive to the transmission of sound. The windows to the reception room at the north are deeply recessed so that they are fully shaded from the summer sun. The building was designed to be heated and cooled with energy efficient tronic heat pumps. The fenestration of the offices was minimized and the openings glazed with bronze tinted, insulated glass to conserve energy.

Included in the architectural design is a system for the storing and control of confidential case records and adoption proceedings. The record storage room is constructed of reinforced concrete with a four-hour fire resistive rating.

Galloway Corporation, of Virginia Beach, was general contractor and handled foundations, concrete work, reinforcing, steel roof deck, carpentry, structural wood, paneling, cabinets and caulking.

Subcontractors & Suppliers
(Norfolk firms unless noted)


Also, Walker & Laberge Co., Inc., glass, glazing contractor, windows, window wall & storefront; Door Engineering Corp., metal doors & frames, wood doors & hardware supplier; Martin Mathis Co., Inc., Va. Beach, plaster/gypsum board/painting contractor, special wall finish & wall covering; Grover L. White, Inc., ceramic tile, terrazzo & special flooring; Craftmaster Co., acoustical treatment; John H. Hampshire, Inc., resilient tile; Cherry Rug Co., Portsmouth, carpet; Glidden Products, paint supplier/manufacturer; Dover Elevator Co., Inc., elevators; Jocker, plumbing fixtures; Aircon, Ltd., plumbing/heating/ventilating/air conditioning contractor; Graybar Electric Co., Inc., lighting fixtures/electrical equipment supplier; and Beach Electric Service, Va. Beach, electrical contractor.

FAMILY SERVICE/TRAVELERS' AID
HEADQUARTERS BUILDING
NORFOLK

LEAVITT ASSOCIATES - ARCHITECT

CHANDLER & GIBSON, Consulting Engineer, Mechanical/Electrical
SHELDON J. LEAVITT, Consulting Engineer, Structural
KEVIN H. STRAUSS of PHOTOGRAPHY, ETC., Photography
GALLOWAY CORPORATION, General Contractor
THE CONCEPT of a centrally-located facility to serve the citizens of Virginia Beach in the areas of health, social assistance and recreation was born in 1969. Through intervening years until construction in 1975-1976, the efforts of many city and United Way officials, private citizens, and civic groups helped solidify the requirements for this facility.

The United Way Family Center opened in September 1976 and now provides family counseling, family life education, assistance to travelers, life saving/swimming instruction, physical fitness and special skills programs, citizenship character building programs, a community blood center and programs for the elderly.

By combining all these services under one roof, the center has been able to operate very economically and efficiently. Because of the central location, it remains easily accessible to all Virginia Beach residents. The site is five acres of wooded property near the Norfolk-Virginia Beach Expressway. The grounds include ample parking, handicapped access throughout, and a wooden foot bridge over an existing natural creek.

The structure is approximately 42,000 square feet in size. Brick veneer wall surfaces were utilized throughout the...
Beveling the brick at exterior columns, corners and windows provides a unique accent and gives the building a sculptured appearance.

A double-tee roof system was incorporated throughout the building, this structure being exposed in gymnasium and swimming pool areas. Extra thick walls were used to insure effective sound insulation between major areas, and multipurpose rooms employ expandable walls to define changing pace needs. All meeting rooms and most administrative areas were designed to adapt to shifting agency requirements.

Galleries overlooking one of the gymnasiums and the swimming pool permit a bird's eye view of sports events for both spectators and coaches. Other special features include all kitchen areas in meeting rooms, a "radio shack" for operations in the event of emergency or disaster, and extensive clean-up facilities for the craft rooms.

Participating organizations are the American Red Cross - Tidewater Chapter, Big Brothers/Big Sisters of Tidewater, Boys Club of Virginia, Girls Club of Virginia, Girl Scouts Council of Greater Tidewater, Family Service/Travelers Aid, Retired Senior Volunteer Program (RSVP), and the YMCA. Salloway Corporation of Virginia Beach was general contractor.

Subcontractors & Suppliers
(Virginia Beach firms unless noted)

The Chesapeake Public Health building is located in the new city medical complex near a primary traffic artery in this fast-growing but widespread municipality.

Situated on a total site area of 3.17 acres, the two-story building encompasses over 28,800 square feet of space. Since it is in such close proximity to Chesapeake General Hospital, design compatibility had a high priority in the planning process. This was achieved through a sensitive application of similar materials and a careful massing of the building itself. In addition, proper site orientation was necessary so that pedestrian accessibility to the existing hospital and to future related facilities would be assured.

Structural materials consist primarily of steel framing, brick veneer, precast concrete panels around parapet, window sills and entry canopies. The roof system is ribbed steel decks heavily insulated, with a monolithic elastomeric surfacing material.
The direct relationship between outdoor and interior spaces was reinforced by bringing exterior brick into the lobby as column facings and selected wall trimmings. Tongue-and-groove red oak floor niks laid vertically line the reconnecting walls between columns.

(Continued on page 48)
Presented with the challenge to transform a brick Colonial rancher into a contemporary office space, the architect set out to establish a clean, bold statement for the client. Sitting low off a major roadway (West Patterson Avenue), the house posed site problems of access and visibility as well as a generally poor appearance.

To achieve greater visual impact from the road, the decision was made to create a high center of interest by means of a protruding clerestory over the reception area. Raising the existing contours with fill has provided visitors direct side access to the building from a parking area level with the entrance grade, yet maintaining a natural look out front.

A new floor scheme organized the available space functionally by zoning private and general offices on the upper level with file and storage areas on the lower. Additional facilities for the office include a walk-out deck linked visually with a landscaped stream located in the back. New lighting, mechanical kitchen equipment were added to renovation.

The Worley Corporation of Richmond was general contractor.

Subcontractors & Suppliers (All Richmond firms)
- J. E. Liesfeld Contractor, Excavating, sodding, seeding, Cherotuck Nurseries, Landscape contractor;
- Ford Paving Co., Paving contractor;
- Capital Masonry Corp., masonry contractor;
- Kito Distributors of Va., Inc., cabinet resilient tile;
- Fralin’s Waterproofing; R. J. Binns Roofing;
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REMINGTON

STAINBACK & SCRIBNER - ARCHITECT/ENGINEER

DENWOOD MILBY
Consulting Engineer, Structural

COLEMAN MADDOX
Consulting Engineer, Mechanical

JOSEPH GARLAND
Photography

JOHN M. WATSON, INC.
General Contractor

When the State Bank of Remington decided nearly eighteen years ago to build a main office for their rapidly growing business the board of directors knew it was important to locate this new complex in a way that would enhance their proud image of a rural farming community bank.
First the board decided to locate in the middle of a long established residential neighborhood of Remington, Virginia, as an ideal site and secondly to turn to the architectural firm of Stainback & Scribner who have become specialists in this phase of design and construction.

To these architects the program was an exciting challenge: to locate within this small site a complex large enough to provide expected full banking services for an active and proud community while retaining a design scale and unity that would be harmonious with the surrounding architecture.

The results were so successful and resources grew so rapidly that a little over a year ago the board of directors was forced to double its present facilities for which it was only natural to return to the same architectural firm with their new program. This program still had to fit within the original limited site, continuing to maintain a low residential profile.

This time the architect had to draw upon in-house structural and mechanical engineering advice before the first sketches could be developed. By maneuvering an ingenious mechanical system around a wood structural frame it was possible to provide a supplement to the original air conditioning system while sacrificing only a minimum of available floor space in the new design. An original false chimney was converted to a fully working fireplace to the delight of staff and customers alike.

The newly created board room, service kitchen and enlarged bookkeeping department were each tastefully finished along with the complete refinishing of the rest of the facility. Allowing existing perimeter garden walls and verhanging trees not to be disturbed while providing new drive-up driveways has been very successful. In addition, carefully selected planting has been strategically located.

A modified lobby entrance, improved tellers booths and newly provided two-lane drive-up service all treated in a residential scale have been warmly received by the community. This acceptance can be considered largely responsible for the new business growth.

John M. Watson, Inc. of Culpeper was general contractor and handled excavating, electrical and plumbing.

Subcontractors & Suppliers

tell the Virginia Story

FEBRUARY 1978
theatre and its lounge open into the entrance hall west of the stairway, and a balcony overlooking the new auditorium/lecture hall is entered on the east side. The theatre lobby extends into the new wing and serves also as lobby and lounge for the new lecture hall and for the new public cafeteria.

A gallery-going visitor arrives by means of the Grand Stairway onto a curving balcony overlooking the floor of the entrance hall below. Three large galleries open onto this balcony, separated by two small lounge areas. The two principal galleries are connected by a bridge from which the visitor can view the sculpture garden below, and to the other side, the transition gallery with the statue of Caligula, the Mediterranean Court and Tapestry Halls beyond.

The new Members' Suite, which is directly above the galleries, offers an excellent view of the garden and like the Members' Dining Room opens onto a small outdoor roof terrace.

The new wing is the culmination of an extensive expansion and total reorganization of the nation's first state-supported art museum.

Cost of construction not including furnishings was $5.2 million.

Hyman, Doyle & Russell, Inc. of Richmond was general contractor and
Subcontractors & Suppliers
(Richmond firms unless noted)
A. Walder, Inc., excavating; Reckhise Brothers Nurseries, landscaping; Montague-Betts Co., Inc., masonry work; Warren Bros. Co., paving; Old Virginia Brick, Inc., Salem, masonry supplier; Moore Crane Service, lime erection; Empire Granite Co., stone masonry; Harding Cogswell, Indiana, stone masonry; Oliva & Lazzuri, Inc., marble, ceramic & quarry tile & veneer; and W. O. Grubb Steel Erection, steel erection.

Also, Miller Mfg. Co., Inc., millwork, cabinets & wood doors; W. R. Eadeins, Inc., waterproofing; Richmond Primoid, Inc., dampproofing; N. W. Martin & Bros., built-up roof & installation of roof insulation; Marsteller Corp., Roanoke, stonemasonry roofing & special stonemasonry flooring; Walker & Laberge Richmond, glass, glazing contractor; aluminum windows & Kawneer storefront; Superior Fireproof Door, metal doors & frames; Pleasants Hardware, hardware supplier; and F. hard Wilton, Jr., Inc., plaster contractor & gypsum board contractor.

Others were: John H. Hampshire, acoustical treatment & resilient; W. W. Nash & Sons, Inc., painting contractor, special wall finish, wall covering & sprayed fireproofing; Pratt Lambert, Inc., paint manufacturer; S. Archer Co., Inc., coiling grilles & retractable partitions; Key Fixture & Equipment, Inc., Lynchburg, food service equipment; W. W. Moore & Sons, elevators; Worsham Sprinkler, Inc., sprinkler contractor; William White, Jr., Inc., plumbing/venting/ventilating/air conditioning contractor; E. C. Ernst Inc., electric contractor; Carthage Marble & and Buckingham-Virginia Slate Co., veneer stone suppliers; and Her Irrigation Corp., irrigation equipment.

Tell the Virginia Story
and coat/magazine racks were constructed of red oak paneling.

To further enhance an outdoor feeling, and to increase the apparent size of the lobby, a full two-story open area is capped by full length clerestory windows and accompanying skylights. A plant-lined walkway at each end of the second floor level opens this dramatic space.

A full kitchen is provided in the first floor assembly area for purposes demonstrating domestic hygiene and food preparation to the public. The area may be closed off from the assembly area by accordion-type folding doors. Another full kitchen located in the second floor staff lounge. Additional areas include conference rooms, administrative offices, medical/dental examination rooms and a library.

A liberal use of carpet was the result of a need for extensive sound insulation and the desire for a relaxed and non-institutional atmosphere. Vinyl wall fabric was specified in most areas for maintenance characteristics.

The building interior complies with the Commonwealth of Virginia design standards for the handicapped. In addition, 15 handicapped parking spaces are located on the north side of the building, providing easy access without having to cross any drives or curbs. Ample pick-up and loading space was provided at the main entrance by creating a recess in the curb line which does not impede other traffic flow.

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The city was emphatic about selective clearing. The architects, with the department of Parks and Recreation, selected the trees to be saved (on an individual basis) along the perimeters of clearing limits. In general, this was typical of the city's interest in the details of the project; the finest possible utility within a reasonable budget was a determining factor in each major decision.

W. B. Meredith, II, Inc. of Norfolk is general contractor.

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